DISCLAIMER

Dear REDFOX User:

Thank you for purchasing and using our product. For future reference, please read the product specifications as well as all the materials attached before using the product. We shall not assume responsibility for damages or losses due to failure to use the device according to this operational manual or to what is implied by the product specifications.

The proprietary right to alter or change any of the content in the specifications belongs to our company; no part of the specifications may be reproduced, stored in a retrieval system, or transmitted in any form or by any means without prior written permission of the company. Trademarks and trade names mentioned in the specifications belong to their respective owners. If the content of the specifications doesn't conform to that of the actual product, the actual product shall be binding.

If you have inquiries or objections about any content, article or clause in the specifications, please forward a written objection within seven (7) days after purchasing the unit. Otherwise, it shall be deemed that you have agreed to, understood, and accepted all the content of the specifications.

On Software and Peripherals

This laptop computer can support several peripheral devices & hardware, such as mouse, keyboard, printer, and scanner. The company also guarantees functionality of software pre-installed in this unit before purchase. Customers who purchase these products from third parties are bound to the terms and equipment specifications attached with these items. The company recommends the use of high-quality equipment and genuine software that are compatible with the specifications of this laptop computer.

The company does not guarantee the compatibility and reliability of any third-party peripheral equipment or software attached or installed onto the computer. For compatibility issues with any of third-party items, please contact the product's manufacturer. REDFOX may also provide technical support when necessary.

ABOUT US

Since 1988, REDFOX has been developing and manufacturing leading-edge technological products. Our passion for innovation enabled us to set the trend in the I.T. Industry for over two decades.

REDFOX Asia Pacific Offices are in the Philippines, Singapore, Hong Kong, Taiwan, Thailand and China, while REDFOX Concept Stores are in Manila, Singapore and China.

1988
REDFOX Technologies started manufacturing main boards and computer peripherals.

A new methodology led to a breakthrough in the design standards and process, producing a cost-effective yet high- grade computer components.

1991
The makers of REDFOX Technologies products gained ISO 9000 certification.

1992
REDFOX expanded its research and development process with Acer Laboratories Incorporated (ALi) to cater to niche markets.

1994
REDFOX developed the PC Terminator, a revolutionary key board PC.

1995
REDFOX Technologies collaborated with American Micro Devices (AMD) and ALi that has led to the development of the AMD socket main boards.

1996
The best selling AGP-Ali socket 7 main board was launched in Taiwan.

1997
AsianTech, a leading I.T. Company in the Philippines, became REDFOX Technologies' regional distributor.

1998
REDFOX introduced the AMD K5 and K6 socket 7 main board in the region. In the same year, we were given the ISO 9001 certification.

2000
REDFOX became the Number 1 brand for AMD CPU based main board in the Philippines.

All specifications and information are subject to changes without further notice

ABOUT US

2002
To address the emerging needs of the region, the REDFOX sales representative office was established in Singapore.

In the same year, we also introduced an all-in-one PC-CRT powered by the AMD Duron CPU.

2004
REDFOX launched Vengeance – the first gaming PC that utilized the AMD Athlon 64bit CPU, which was embraced by the gaming industry.

2005
REDFOX released its first line of laptops: the Navigator, renowned one of the lightest laptops weighing 1.95kg and the Duranote, which was tagged as the "mobile fortress" for its spill-proof and shock resistant features.

REFOX caught the attention of 6 prominent award giving bodies:
Silver (Two-Star) Award – 2005 Asian Star Awards,
Silver (Two-Star) Award – 2005 Philippine Star Awards,
Number 1 Computer System (2005 People's Brand Awards),
Number 1 Computer Brand
(2005 National Shopper's Choice Annual Awards),
Red Fox Vengeance64 Power Workstation (Silver Award by Hardwarezone),
Red Fox Vengeance64 Power Workstation (Best Gaming Setup-2005 Gadgets of the Year)

2006-2007

PLDT, the largest Philippine telecommunications company, launched its Nationwide Internet Café (iCafe+) program powered by myPLDT DSL & REDFOX Vengeance. It was the most successful iCafe program of that decade.

REDFOX became a Superbrand in the Asia Pacific region.

2008
REDFOX released the LX800, the 1st Ultra Mobile Personal Computer.

It was in this year that all telecommunication companies in the Philippines (PLDT, Globe, Bayantel) chose REDFOX to be its hardware partner for their internet services.

ABOUT US

2009
To enable customers to experience using REDFOX Products, three concept stores were built in Asia - 2 in the biggest mall chain in the Philippines (SM City North Edsa & SM City Marikina) and another in China.

2010
REDFOX launched its new product lines .
• REDFOX WizBook and Optima, powered by the latest innovations for mobile computing
• The Vengeance EVO, a more powerful version of the highly acclaimed Vengeance, played with the Wizbar, a motion-sensor PC game pad which detects movement in three dimensions
• The Wizpad, the first PC tablet operating under Windows7.

Our innovative solutions were introduced to the Philippine Commission of Information and Communication Technologies (CICT) to demonstrate a more cost-effective method of digital learning using the WizStation, a single unit multi-learner PC that powers up to 10 work stations using Microsoft Multipoint Windows Server 2010.
In partnership with the Quezon City High School Alumni of the Philippines, we sponsored the QC HS Computer Laboratory through the Department of Education of the Philippines' "Adopt a School Program".
REDFOX opened its first Innovative Technologies Center at #26 Hemady Avenue, New Manila, Quezon City.

2011
REDFOX launched new products on the leading edge of technology:
• REDFOX Optima 300IW, the latest product from the Optima line for mobile computing.
• The Vengeance Intensity, the first gaming PC in the Philippines which gives users different views of their game through 3 different monitors.
• The Wizpad 2, an improved version of the first Wizpad with the revolutionary built-in stand and magnetic keyboard.
• The Nursing Skills Netbook, a netbook specially developed and created for nurses. It contains supplementary educational materials to update nurses' knowledge.

We moved into our new REDFOX Office at #26 Hemady Avenue, New Manila, Quezon City.

All specifications and information are subject to changes without further notice

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Annex A Product Specifications

1.1 Hints

Easy-to-read hints indicate that special attention should be paid to the information succeeding it. These hints are expressed as follows:

[Danger] --- indicates high risks;
[Warning] --- indicates medium risks;
[Note] --- indicates that attention should be paid to light risks;
[Prohibition] --- indicates that dangerous operation should be prohibited;
[Reminder] --- indicates that attention should be paid to safety or other contents;

Besides the information expressed along with these hints, please read the content and safety information on product parts and usage included on the following chapters.

1.2 Basic Product Care Tips

This laptop is a high-tech precision product that requires proper usage and maintenance. Please take note of the following basic care tips for using your REDFOX laptop:

1) Maintenance of LCD

- Do not place heavy objects on top of this laptop computer.
- When placed in a suitcase of backpack, make sure that there aren't too many objects inside the bag that place additional pressure to the back part of LCD screen.
- Do not scratch, twist or strike the LCD screen.
- Do not place the LCD screen in an environment where the temperature exceeds 40 Celsius degrees or the humidity exceeds 90%.
- Do not expose the LCD screen to direct sunlight or strong fluorescence.
- Do not place any objects between the LCD screen and keyboard, such as pencil, documents and other items, which may damage or scratch the LCD screen.
- Please do not use corrosive detergent to wipe the LCD screen.

2） In order to prevent computer from overheating, please keep the ventilation vents unobstructed during computer operation.

3）Please make sure that external devices such as floppy drive, CD-ROM and other mobile storages are safely removed from the system before they are unplugged. Otherwise, failure to safely remove these devices may lead to system breakdown or data damage.

4）Please do not open the computer casing while the system is running.

5）Please back up your data in advance before formatting the hard drive, this process will delete all data stored previously in the system.

6） Power Supply

- The power supply should be stable and be free from interference.
- Please make sure that the power has been correctly grounded when plugging the computer to an external power supply.
- Please do not damage the grounding line of the power socket.
- Shut down the computer properly before unplugging.
- If you will not use the computer for a long time, please pull off the power plug in order to avoid transient voltage that may lead to system failure.
- Please make sure to pull from the root of socket so as to guarantee safety.
- When you are not clear about the local specifications on electric devices, please consult your local power supply company.

7） Unplug the computer from the power supply and remove the battery before cleaning the device.

8） Do not hand carry the laptop computer with one hand or place your laptop computer in an unstable platform.

9） This product can only be disassembled by an authorized service staff or agents assigned by the company. Please keep all labels, markings and seals intact since these are crucial to the warranty and service processes.

10） Do not forget your user password. Else, please contact the supplier or authorized service center.

11） Please don't use pencil and other breakable items to manually eject the Disk Drive.

1.3 Instruction before product use

Applicable group

[Note]
The computer is not suitable for independent operation by children seven years old and below. Adult supervision is advised.

Working environment

[Danger]
For your safety, operate this device strictly in a working environment defined as follows:

Conditions	Value
Temperature (for storage and transportation)	-20°C - 50°C
Relative humidity (for storage and transportation)	20% - 93%(40°C)
Atmospheric pressure	86 kPa - 106 kPa
Adaptation capability of power	220V±22V, 50Hz±1Hz
Working humidity	35% - 80%
Working temperature	10°C - 35°C

[Warning]
In order to prevent damage due to dampness, dust, food, liquid, direct exposure to sunlight or such, the computer should be placed in a cool and dry place with good ventilation. Keep this device away from other household electrical appliances.

[Note]
Booting or disassembling the computer in a room temperature below 10 degrees Celsius may lead to internal damages in the device. Leave the computer shut down in a 10 degrees Celsius to 35 degrees Celsius working environment before use to avoid the computer's temperature from getting excessively low.

[Note]
Before using the computer, please make sure that the computer connection, power use and other affairs conform to the requirements in the specifications.

Removal, Transportation and Storage

[Note]
When moving the computer, special care should be taken.
The computer should be placed in the original packing box in case of transportation. You should pile and place the packing box according to the symbol and indication of packing & transportation diagram. You should also use closed cases in case of removal.

[Note]
In case of storage, the packing materials should be placed beyond children reach in order to prevent the occurrence of unsafe happenings.

[Note]
According to the relevant interpretation of GB/T9813-2000 General Specifications of Micro-computer, after the computer is stored and transported under the environment of lower than 10 , please place the computer for over 2 hours under the room temperature condition of 10-35 Celsius degrees before using the computer in order to avoid electrified damages due to excessively low computer temperature.
Please do not disassemble the package during the period. Let the computer resume its temperature naturally and avoid the temperature increasing excessively quick which thus leads to electrified damages due to computer frosting and dewing.

1.4 Battery

[Note]
It is advised that the replacement and installation of the lithium-ion battery be done by technical professionals. Dispose used battery properly to avoid serious environmental consequences. Do not dispose in fire or water. You may return the battery to the post-sales and maintenance department for proper disposal.

QUICK GUIDE

Please be sure to read the instructions on the battery of laptop computer

Lifespan of battery:
The duration of battery may be influenced by the following factors: times of charging and consumption, operating system, brightness setup of LCD, application programs, power management setup, network connections, etc.
The battery's full capacity will also gradually decrease over frequent use. In order to improve battery performance and increase its lifespan, the battery should thoroughly discharged every other month and be recharged until fully-powered.

Battery gauge:
The built-in gauge in the battery determines the total battery power and controls charging and discharging process. To maintain the accuracy of this gauge, thoroughly discharge the battery every other month or after 20 times of incomplete discharging and recharge the battery to its full capacity.

Due to the battery's own characteristics, the battery's full capacity will decrease over frequent use. Within the battery warranty period, the battery may not be charged to 100%. However, this doesn't affect the normal operation. This is a common phenomenon.

To save the battery power:

A. Senior power management:
Your REDFOX laptop computer has a function of senior power management, which can adjust the speed of processor and ambient parts. The use of this function will help to save the battery power

B.The brightness of LCD:
Adjust down the display brightness of your REDFOX laptop computer to save on energy consumption.

C. Software and peripheral:
Executing programs and using peripherals on your REDFOX laptop computer consumes battery power. To save the energy consumption, we recommend as follows:

- Limit the use of the Modem, Wi-Fi or other communication programs. If these programs are not in use, it should be turned off.
- Take out the unused PC card from the computer slot. Because even in case of pause mode, PC card will also quickly consume the battery power.
- Unplug unnecessary peripherals from the computer socket.

QUICK GUIDE

Instruction:

Fully discharging the battery
Let the computer run with the battery power until it is fully consumed and your REDFOX laptop computer automatically shuts off. Disregard the notice on excessively low power on the computer screen or when you hear the warning beep sound of excessively low power. You should not manually shut off your REDFOX laptop computer.

Fully charging the battery
While charging the battery, wait until that the battery indication lamp on your REDFOX laptop computer indicates the charging has been completed, i.e. reaching the battery's full capacity.
For details, please refer to the indication lamp of power state in this manual.

Battery Maintenance
You should do one complete discharging and charging at least every month or after every other 20 times of incomplete discharging.

Warning

- The battery can only be used in this REDFOX laptop computer.
- Replace the battery properly to avoid danger of explosion. Only battery products of same or equivalent types recommended by the manufacturer can be used for replacement.
- Do not disassemble the battery.
- Do not expose the battery to fire or water.
- In order to prevent the fire accident, combustion or damages on the battery, avoid touching the two poles of the battery with metals.
- Special care should be taken when handing damaged or leaked battery. If accidentally exposed to the battery liquid, rinse thoroughly with soap and water. If it touches you eyes or open wounds, flush with water for at least 15 minutes and seek medical attention immediately.
- Do not charge the battery during extreme temperature of your environment.
- Do not expose the battery to extreme temperatures during transportation or storage.

1.5 Power

[Danger]

Use only quality three-core grounding power plug and socket with grounding protection. The power socket should be inserted into an external source with a sound grounding.

Power lines should conform to local safety regulations such as compliance to CCC Certification. Cable length should not exceed 4.5 meters. Should you replace standard power lines, seek aid from authorized professionals to avoid accidents.

Before using an external power source, check first if it conforms to the specifications of the REDFOX laptop computer.

[Danger]

Avoid using the REDFOX laptop computer during thunderstorms. Disconnect all cables that connect the computer outdoors such as telephone line, network line and power line. Do not touch these lines or cables during a thunderstorm.

[Warning]

Do not insert a 110V power line into a 220V power line. Do not change the voltage selector switch of the computer power to avoid physical harm or equipment damage.

[Note]

Carefully examine the AC power line attached when purchasing the REDFOX laptop computer. In case of any problems, please contact your product distributor.

1.6 Ergonomics

[Reminder]

Computer users may experience discomfort such as back pain, eye strain or headache after prolonged use of the unit. Bad posture, continuous usage, extreme heat or cold, stress and poor working habits may increase the risk of physical injury in using the computer. If you are experiencing recurring discomfort associated to the use of this device, seek medical advise as soon as possible.

The following gives you information for a more comfortable use of this device:

- Back Support
  - ✓ Select a chair which fully supports the lower part of your back.
  - ✓ Adjust the height of your chair or your working surface to a comfortable level.

- Posture
  - ✓ Remove all items under your working area which restricts leg movement.
  - ✓ Rest your legs comfortable on a surface such as the floor or a footstool.
  - ✓ When using the keyboard, touch-pad, or control devices such as a mouse or game controller, lightly touch the keys or buttons and keep your hands and fingers relaxed.
  - ✓ Avoid resting your palm or wrist on rough surfaces or table edges.
  - ✓ Sit comfortably, allowing the chair to fully support your weight.

- Preventing eye fatigue
  - ✓ Put the screen in your arm's reach and comfortably sit before the screen.
  - ✓ The position of display should be in a comfortable distance from the light source generating glare. Use a window curtain or blinds to minimize glare.
  - ✓ Please remember to clean the screen. If you wear glasses, please clean the glasses too.
  - ✓ Please adjust the brightness and contrast of screen as well as the font size to a comfortable view.
  - ✓ Place screen in a position slightly below eye level. If you refer to documents more frequently than the display, you may place these documents directly before you and the display should be slightly on the left side.
  - ✓ Please consider using document frame and place the document in a level near to your eyes.
  - ✓ For those with astigmatism or similar eye problem, it may be necessary to put the screen lower, or wear glasses suitable to computer work as advised by qualified eye experts.

1.7 Instructions on safety

1) The power socket hole should be installed near the equipment or places easy for operation. When inserting and pulling the power line, avoid directly pulling out the power line by pulling and dragging. Please be sure to pull from the root of plug so as to guarantee the safety and caution against electric shock. Please don't disassemble the power adaptor.

2) Do not place the product in places with easy access to water.

3) In case of installation, please place the product on a stable supporting foundation. This product may fall off due to unstable placement, which leads to serious damages.

4) Do not place the products in places where there are frequent flow of people so as to avoid trampling the electric wire. Please make sure that no items are placed on the electric wire.

5) Follow all the warning information and indication on the products.

6) If you don't plan to use the product for a long period, please pull off the power socket so as to avoid excessive transient voltage, which can cause damages.

7) Please don't splash any liquid on the product. This action may lead to risks of fire accidents or electric shock.

8) In case of the following conditions, it should be serviced by professionals:
- The power line or socket has been destroyed or torn off.
- The liquid is splashed to the product.
- The product is drenched by raining or splashed by water.
- When you follow the instructions on operation, the product is still unable to run normally.
- If the product once fell off or its shell has been destroyed.
- If the product has apparent damages.

9) For the usage and storage temperature of this product, please refer to the product specification in annex A. If the product is not used and stored within the defined temperature scope, it may lead to permanent damages on the product.

10) Please don't use the power adaptor where it's near to water or other liquids. Please don't splash liquid to the power adaptor.

Note:
All the photos & diagrams in this manual are schematic diagrams and can only be used for reference. The actual use should be based on the object.

2.1 Product Specifications

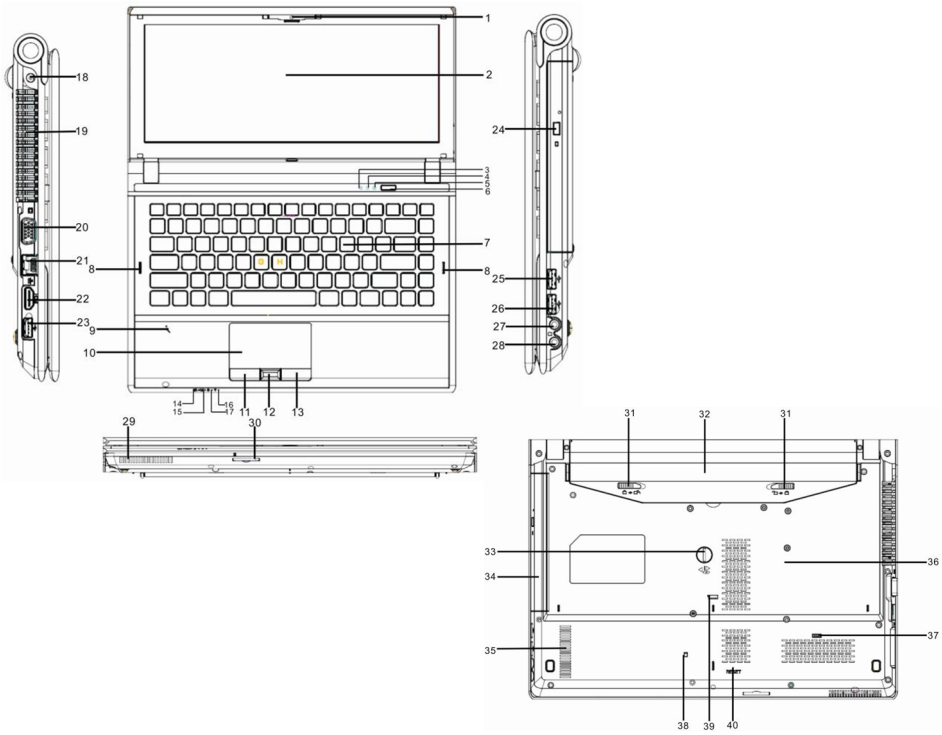
Product Name	REDFOX Optima Powered by Intel® latest mobile technology
CPU	Intel Sandy Bridge Processor
Chipset	Intel 6-Series Cougar Point Mobile Chipset
System memory	2 x DDR3 SO-DIMM socket (upgradeable up to 8GB Maximum Capacity)
Displaying memory	Intel HD Graphics
Display	14.0" LED B/L wide-screen with 1366×768 resolution
Input devices	US Standard Keyboard, Touch-pad
Hard Drive	2.5", height 9.5mm, SATA interface, 5,400 rpm
Optical Disk Drive	12.7" mm SATA ODD, DVD +/- RW
Sound	Stereo headphones; microphone; Supports HD Audio.
I/O Interface	1 Microphone socket; 1 Headphone socket; 3 USB2.0 interfaces; 1 VGA; 1 HDMI; 1 RJ-45(LAN); 1 4-in-1Card Reader; 1 DC-IN socket
LAN	10/100/1000 Base-TX
Wireless Network	802.11 b/g/n
Other Connectivity	Bluetooth
Webcam	1.3MP
Power	Input: 100-240V ~ 50-60 Hz 1.7A Output: 19V 65W
Battery	6-Cell, 4400mAh smart Lithium-ion battery; Actual battery life will depend on battery condition and specifications
Dimension	Approx. 241mm (W) x341mm (D) x29~37 (H)
Weight	2.6 kilograms (including battery)

Note:
Specifications of similar models of this product may be upgraded, modified or changed without prior notice. The configuration of the unit purchased by the user shall be final and absolute.

PRODUCT OVERVIEW

2.2 Introduction to Parts & Components

Note: Images may vary from the actual unit. For reference use only



No.	Description	No.	Description	No.	Description
1	Internal Camera	18	DC-IN socket	30	Cardreader
2	Display	19	Vent	31	USB port
3～5	Please refer to	20	VGA Port	32	Battery socket
14～17	page 15 for the	21	LAN port	33	Battery
	indicator details.	22	HDMI port	34	ODD
6	Power button	23	USB port	35	Right speaker
7	Keyboard	24	ODD Eject Button	36	CPU Socket
8	Screen protector	25	USB port	37	Memory Socket
9	Internal microphone	26	USB port	38	HDD Socket
10	Touch pad	27	Microphone input port	39	Wifi Socket
11	Left Button	28	Sound Output port	40	BIOS Reset
12	Finger print Scanner (If available)	29	Left speaker		
13	Right Button				

2.3 Unpacking and inspection
Carefully unpack the computer and other accessories. If any of the items are found missing, please contact dealer immediately. Keep the original packing materials for storage and item replacement.

The package should contain the following parts and components:

1.) Laptop computer
2.) Power adaptor
3.) User's manual
4.) Driver Disk program
5.) Battery
6.) Warranty card

3. 0 Operating your computer

3.1 Status indicators

LED Icon	Function
	Blue lamp: Indicates that the system running or is in sleep-mode.
	Orange/ Green lamp: 1. Orange: Indicates that the battery is being charged. 2. Orange (flashing): Low battery power 3. Green: Indicates full-charge.
	Green lamp: Indicates that the system is reading the hard drive.
	Green lamp (flashing): Indicates that the wireless network card is currently switched on.

OPERATING YOUR COMPUTER

3.2 Turning the computer off

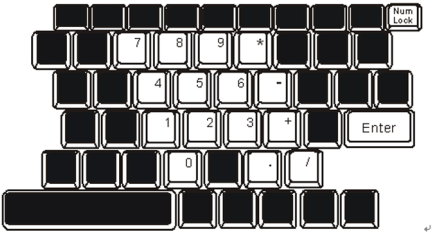
When you finish working on your computer, you may shut down the system or choose to go to the standby mode or hibernation.

Mode of Stopping	Method	Method on re-starting or usage
Directly shut off the power	Please follow the program for shutting the operating system.. By doing so, you can avoid the losses of data or damages of software. If the system is halted due to the problems on hardware or software , you can use the power button to shut off the computer.	Using the power button
Standby	According to your setup of Windows, the system will enter the standby status according to following method: A, Close the computer button; B, Use the power button.	Using the power button
Hibernation	According to your setup of Windows, the system will enter the hibernation status according to following method: A, Close the computer button; B, Use the power button.	Using the power button

3.3 Function keys

Icon	Hot Key	Function
	Fn+Esc	Enables Hibernation
	Fn+F1	Turns the Touchpad function on/off
	Fn+F3	Turns on/off Wireless Devices
	Fn+F4	Mute
	Fn+F5	Decreases brightness of the laptop display screen
	Fn+F6	Increases brightness of the laptop display screen
	Fn+F7	Switches to one of the three display modes, i.e. laptop screen only, external display only, and both laptop screen and external display used simultaneously
LCD	Fn+F8	Turns on/off the display screen
	Fn+F11	Decreases master volume
	Fn+F12	Increases master volume
	Fn+Insert	Turns on/off Num Lock Function
PgUp	Fn+↑	Page up
PgDn	Fn+↓	Page down
Home	Fn+←	Skip to Home
End	Fn+→	Skip to End/Footer

Numeric Keypad
You can activate the numerical keypad by pressing Fn + Numlock. The numeric is displayed at the right lower corner of keys. This contains keys for the basic calculation, i. e . plus, minus , times and divide.
Press the Fn + Numlock once again to resume original keyboard function.



3.4 Touch pad
The built-in touch pad is a pointing device compatible with PS/2. This follows movement on its surface to control the mouse pointer. Slide your finger on its surface to move the cursor. Tap once to select and twice to double click.

3.5 Display screen
In order for the comfort of your eyes, your laptop computer is equipped with LED LCD, which supports high resolution and real color function. It brings marvelous visual excitement.

To prolong the lifespan of lifespan of display screen.

- Adjust the brightness of screen into the minimum levels.
- When using it on the table, please connect an external monitor and shut off the display screen of the laptop computer.
- Don't close the option of entering the pause mode in shutting off the power management.
- If the AC power is used and there is no external monitor, please don't switch to the pause mode when not using it.

[note]
In order to prolong the battery life of your units, adjust the brightness to the minimum levels to consume less battery power.

SETUP OF BIOS (BASIC INPUT & OUTPUT SYSTEM)

3.6 Network card

The laptop computer is equipped with a built-in Ethernet network card conforming to 10/100Base-TX standard. Insert one end of the LAN line into RJ-45 provision at the right side of your computer. This allows data transfer through the internet.

Open or close wireless network

This laptop computer is also equipped with a built-in wireless network card which detects Wi-Fi signal in a given location. Please follow the instructions in the operating system for setup and access of the wireless network. It will take some time for your computer to connect the wireless network. Please consult your local service provider of wireless network.

3.7 BIOS reset

This laptop computer is equipped with a BIOS resetting function. Should you need to restore the default settings, you can use a clip or a needle to keep pressing the reset key for 4 seconds. The BIOS will be restored to manufacturing default settings.

4.0 Setup of BIOS (basic input & output system)

The BIOS (Basic Input and Output System) contains the pre-set value of a computer. You can modify these values to meet specific hardware requirements such as booting through another drive, upgrading, enabling disk recovery or setting up a BIOS password to prevent unauthorized access.

4.1 BIOS setup

Here are cases that may require you to modify the BIOS setup:

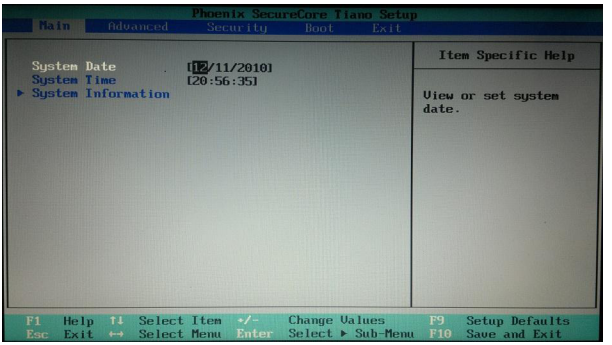
- Hardware problem detected in the booting test.
- Resetting to default values.
- Adjusting setup value according to the specific hardware.
- Adjusting setup value in order to acquire the optimum system performance
- Adjust boot sequence.

To enter the BIOS setup, press the F2 key during POST boot.

How to select

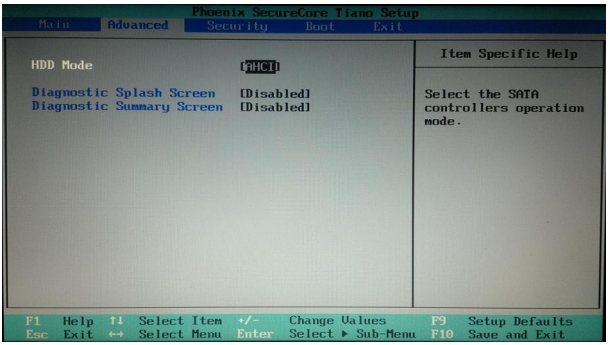
You can select items from two- or three- level option consisting of the menu title in the first level, drop-down menu in the second level, and the sub-menu in the third level. Move by using the arrow keys and select by pressing ENTER. All available keyboard controls are seen at the bottom of the screen.

4.2 Main (main setup)


Phoenix SecureCore Tiano Setup
Main Advanced Security Boot Exit
System Date [12/11/2010]
System Time [20:56:35]
▸ System Information
Item Specific Help
View or set system date.
F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
Esc Exit ↔ Select Menu Enter Select ▸ Sub-Menu F10 Save and Exit

System Date: setup of the system data
System Time: setup of the system time
System Information: System Information Display

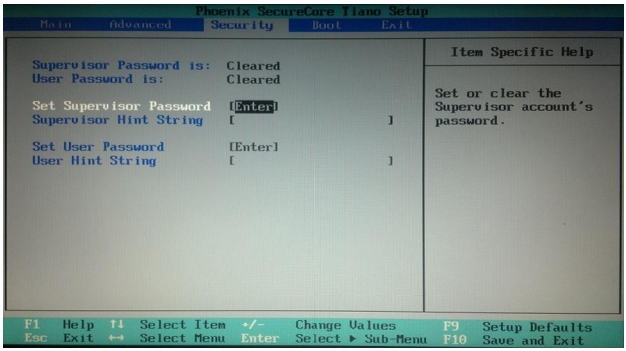
4.3 Advanced


Phoenix SecureCore Tiano Setup
Main Advanced Security Boot Exit
HDD Mode [AHCI]
Diagnostic Splash Screen [Disabled]
Diagnostic Summary Screen [Disabled]
Item Specific Help
Select the SATA controllers operation mode.
F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
Esc Exit ↔ Select Menu Enter Select ▸ Sub-Menu F10 Save and Exit

HDD Mode: Select the hard disk mode
Diagnostic Summary screen: System hardware configuration display
Diagnostic Splash Screen: POST display

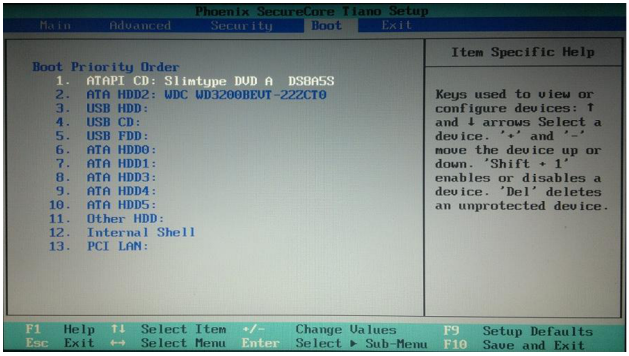
SETUP OF BIOS (BASIC INPUT & OUTPUT SYSTEM)

4.4 Security


Phoenix SecureCore Tiano Setup
Main Advanced Security Boot Exit
Supervisor Password is: Cleared
User Password is: Cleared
Set Supervisor Password [Enter]
Supervisor Hint String [ ]
Set User Password [Enter]
User Hint String [ ]
Item Specific Help
Set or clear the Supervisor account's password.
F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit

Set User Password: Set User Password
Set Supervisor Password: Set Supervisor Password

4.5 Boot


Phoenix SecureCore Tiano Setup
Main Advanced Security Boot Exit
Boot Priority Order
1. ATAPI CD: Slimtype DVD A DS8A5S
2. ATA HDD2: WDC WD3200BEVT-22ZCT0
3. USB HDD:
4. USB CD:
5. USB FDD:
6. ATA HDD0:
7. ATA HDD1:
8. ATA HDD3:
9. ATA HDD4:
10. ATA HDD5:
11. Other HDD:
12. Internal Shell
13. PCI LAN:
Item Specific Help
Keys used to view or configure devices: ↑ and ↓ arrows Select a device. '+' and '-' move the device up or down. 'Shift + 1' enables or disables a device. 'Del' deletes an unprotected device.
F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit

Set the boot device boot sequence
Use <+ > and < -> adjust the boot sequence

INSTALLATION OF DRIVER PROGRAM

5.0 Installation of driver program

This laptop computer support Windows 7.

Open the CD-ROM with random allocation, operation procedures, illustrated as follows:

6. 0 Basic Troubleshooting

REDFOX Laptop computers go through a complete system test and quality control before being available in the market. However, in some cases, you may encounter some problems on your computer hardware or software due to incorrect operation or negligence, which needs to be addressed immediately.

This chapter provides instructions on addressing general problems on hardware and software you may encounter and work out on your own. If the problem continues to emerge, consult your distributors for service information.

6.1 Sound Problems

No sound

- Double-click the loudspeaker icon at the right lower corner of the taskbar and check whether the volume of loudspeaker has been adjusted down or muted.
- Press Fn+F12 in order to increase the volume.
- Most of the problems on sound are due to software adjustment. Check on your program settings and adjust accordingly.

BASIC TROUBLESHOOTING

Unable to record sound
For Windows users, double-click the loudspeaker icon at the lower right corner of the taskbar.

1.Press the Option and select Property.
2.Select Recording and press the Enter button.
3.After the Enter button is pressed, the control console for recording volume will pop out.

6.2 Hard Drive Problems

HD is unable to run normally or not recognized by the system

- If you upgraded the HD, check if the actual disk is firmly attached and if the HD installation is properly completed. Pull off the joint, re-insert it firmly and restart the computer.
- The new HD need partitioning and re-formatting. The operating system and driver program also need to be re-installed.
- Examine if the HD indicator lamp flashes in response when accessing documents and processing programs.
- Check if the HD is broken due to physical or electrostatic damage. In this case, you may need to replace the HD and re-install the OS, drivers and other program.

Slow processing

- If your HD has been used for a long time, excessive and unorganized files and programs may result to disc fragmentation which in turn slows down processes. To defragment drive:

  Start > Program > Accessory > System Tool > Disk defragmentation.

  This process may take some time.
- Check if the hard drive has been infected with virus. Install anti-virus software to remove malware.

Document damaged

- Please execute the surface scan in the disc scanning program for disc examination.
- Double-click My Computer. Right click C: and select Property. Select Start Checkup under the Tool menu to execute the disc scan.

BASIC TROUBLESHOOTING

6.3 Display Problems

Black screen

- Please make sure that the laptop computer is not in hibernation or standby mode. While the REDFOX Laptop Computer is in these modes, the display will be shut off.
- Press the functional key Fn+F6 to increase the brightness of screen.
- Press the functional key Fn+F7 to confirm that the REDFOX laptop computer is not in the CRT output mode.
- Press the functional key Fn+F8 to turn on the display screen.

Screen flashing
When you start or shut the computer, the screen may normally flash for several times.

'Damaged points' in the display
Due to the restriction of LCD manufacturing process, some image points cannot display certain colors on LCD (i,e generally called damaged point). For details, please refer to GB/T9813-2000.

The relevant contents on the national standards are as follows.
Inspection shall be conducted under the following condition:

- Ambient temperature: 20°C - 25°C
- Light: 300lx-700lx
- Distance for visual observation: the visual line and screen surface form 90 degrees.

6.4 Problems on memory

After installing a new memory card, the added memory capacity is not displayed during self-testing in the POST boot.
See if:

- The installation of memory module may be incorrect.
- The memory module may be broken.
- Your system may be incompatible with some memory modules.

Error information on insufficient memory is displayed
This problem is usually resulted from installed programs or restrictions in the OS. Close unused application programs and re-start the computer. You may also install more memory modules to expand memory capacity.

ANNEX A PRODUCT SPECIFICATIONS

Product Name	REDFOX Optima Powered by Intel® latest mobile technology
CPU	Intel Sandy Bridge Processor
Chipset	Intel 6-Series Cougar Point Mobile Chipset
System memory	2 x DDR3 SO-DIMM socket (upgradeable up to 8GB Maximum Capacity)
Displaying memory	Intel HD Graphics
Display	14.0" LED B/L wide-screen with 1366×768 resolution
Input devices	US Standard Keyboard, Touch-pad
Hard Drive	2.5", height 9.5mm, SATA interface, 5,400 rpm
Optical Disk Drive	12.7" mm SATA ODD, DVD +/- RW
Sound	Stereo headphones; microphone; Supports HD Audio.
I/O Interface	1 Microphone socket; 1 Headphone socket; 3 USB2.0 interfaces; 1 VGA; 1 HDMI; 1 RJ-45(LAN); 1 4-in-1Card Reader; 1 DC-IN socket
LAN	10/100/1000 Base-TX
Wireless Network	802.11 b/g/n
Other Connectivity	Bluetooth
Webcam	1.3MP
Power	Input: 100-240V ~ 50-60 Hz 1.7A Output: 19V 65W
Battery	6-Cell, 4400mAh smart Lithium-ion battery; Actual battery life will depend on battery condition and specifications
Dimension	Approx. 241mm (W) x341mm (D) x29~37 (H)
Weight	2.6 kilograms (including battery)